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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/525,666	02/25/2005	Kozo Ide	Q86552	9554
65565 SUGHRUE-265	7590 03/12/200 5550	7	EXAMINER	
	LVANIA AVE. NW		DUDA, RINA I	
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER
			2837	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	03/12/2007	PAPER .	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary    The MAILING DATE of this communication appears on the cover sheet with the correspondence address → Period for Reply   A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE § MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. SHOWER SEX (8) MONTHS from the maining date of this communication. If Y CPR 1.130(a), in no event, horever, may a reply be simply filed after SEX (8) MONTHS from the maining date of this communication. If Y CPR 1.130(a), in no event, horever, may a reply be simply filed after SEX (8) MONTHS from the maining date of this communication. If Y CPR 1.130(a), in no event, horever, may a reply be simply filed after SEX (8) MONTHS from the maining date of this communication. If Y CPR 1.130(a), in no event, horever, may a reply be simply filed after SEX (8) MONTHS from the maining date of this communication. If Y CPR 1.130(a), in no event, horever, may a reply be simply filed after SEX (8) MONTHS from the maining date of this communication. If Y CPR 1.130(a), in no event, horever, may a reply be simply filed after the properties of the communication of the properties of the prope		Application No.	Applicant(s)				
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WHICHEVER IZONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Laterisities of time may be available under the provisions of 37 CFR 1.136(a). In or event, however, may a reply be timely filed after 138(c) in 10 New 175 from the mailing date of this communication.  The static provision of the mailing date of this communication.  Failure to reply within the set or resonance period for reply will, by static, cause the application be browne ABANOMED for 34 US 6 1.33).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any seared patient term adjustment. See 37 CFR 1.704(b).  Status  1)	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
Status  1)  Responsive to communication(s) filed on	<ul> <li>WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any</li> </ul>						
2a)  This action is FINAL. 2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-7 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) is/are objected to.  8) Claim(s) is/are objected to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on 25 February 2005 is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
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application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.	<u> </u>						
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Pager No(c) (Mail Date	, — , , , , , , , , , , , , , , , , , ,						
2)							
Paper No(s)/Mail Date <u>5/19/05</u> . 6) Other:							

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#### **DETAILED ACTION**

#### Specification

1. The incorporation of essential material in the specification by reference to an unpublished U.S. application, foreign application or patent, or to a publication is improper. Applicant is required to amend the disclosure to include the material incorporated by reference, if the material is relied upon to overcome any objection, rejection, or other requirement imposed by the Office. The amendment must be accompanied by a statement executed by the applicant, or a practitioner representing the applicant, stating that the material being inserted is the material previously incorporated by reference and that the amendment contains no new matter. 37 CFR 1.57(f).

## Drawings

2. The drawings are objected to because the empty boxes must be textually labeled. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering

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of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Ueda et al (US Patent 5057759).

Claim 1, Ueda et al describes an AC motor control apparatus comprising a phase difference holding means 23 for causing a PWM carrier signal to have a desired phase difference between the motor phases in order to avoid position/speed estimation; a high frequency extracting means such as units 15/16 for extracting motor parameters; and a position estimating means 11 for estimating motor position information based on detected feedback information.

Claim 2, Ueda et al describes that the phase difference holding means generates voltage/current signals based on information from other than output frequency of the PWM circuit 20, Ueda et al receives information directly from the motor windings.

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Claim 3, Ueda et al describes that the extracting means converts the motor feedback information into a two-phase static coordinate system 18 with an alpha axis and beta axis which are orthogonal by 90 degrees so that the desired frequency components can be extracted by means of filter 17.

Claims 4 and 6, Ueda et al describes unit 11 for determining the position/speed based on the feedback motor information.

Claim 5, ueda et al describes current controller 13 for controlling the current supplied to the motor.

Claim 7, Ueda et al describes a speed control device 14 for feeding back the speed estimated by the speed estimated device in order to control the speed of the motor.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rina I. Duda whose telephone number is 571-272-2062.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on 571-272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RD

PRIMARY EXAMINER